## IN THE CLAIMS:

1. (Currently amended) In a  $\underline{A}$  method for producing a film, by casting a preformed solution, the improvment comprising:

providing a substrate, wherein said substrate is selected from the group consisting of (i) a substrate comprising pre-sintered ceramic oxide and (ii) tape that includes at least one binder and at least one plasticizer; and

casting the <u>a</u> preformed solution <u>onto said substrate</u> using an atomizer, wherein said preformed solution comprises a ceramic powder.

- 2. (Currently amended) The improvement of Claim method of claim 1, wherein using an said atomizer spreads the said preformed solution in a fine mist.
- 3. (Currently amended) The improvement of Claim method of claim 1, wherein the step of casting with the atomizer is carried out at room temperature.
- 4. (Currently amended) The improvement of Claim method of claim 1, wherein the casting of the preformed solution is carried out by spraying the preformed solution with the atomizer on a heated said substrate is heated.

- 5. (Currently amended) The improvement of Claim method of claim 4, additionally including heating the wherein said substrate is heated by direct heating or by blowing hot air there across.
- 6. (Currently amended) The improvement of Claim method of claim 1, additionally including forming the said preformed solution.
- 7. (Currently amended) The improvement of Claim method of claim 6, wherein the step of forming the said preformed solution is carried out so as to include a solvent and dispersant for preventing agglomeration.
- 8. (Currently amended) The improvement of Claim method of claim 7, wherein the step of forming the said preformed solution is carried out such that said solvent has a high volatility and the said solution has a low viscosity.
- 9. (Currently amended) The improvement of Claim method of claim 7, wherein the said solvent is organic.
- 10. (Currently amended) The improvement of Claim method of claim 7, wherein the said solvent is composed of comprises material selected from the group consisting of ethanol, and methanol and alcohol.

11. (Currently amended) The improvement of Claim method of claim 6, wherein the step of forming the said preformed solution is carried out by:

dispersing <u>said</u> powder to be coated in a solvent, ;

adding a dispersant to prevent agglomeration; and

adding at least one of the group consisting of <del>plasticizers and binders</del> <u>a</u>

plasticizer and a binder.

- 12. (Currently amended) The improvement of Claim method of claim 11, wherein the said solvent of thus formed solution has a high volatility and said preformed solution has a low viscosity.
- 13. (Currently amended) The improvement of Claim method of claim 12, wherein said solvent is organic or a mixture of organic and water.
- 14. (Currently amended) The improvement of Claim method of claim 12, wherein said solvent is selected from the group consisting of ethanol, and methanol and alcohol.
- 15. (Currently amended) The improvement of Claim method of claim 12, wherein the step of casting the said preformed solution is carried out by the said atomizer at a temperature below about 100° C.

16. (Currently amended) The improvement of Claim method of claim 15, wherein the step of casting of the preformed solution is carried out by the said atomizer by spraying a mist of the said preformed solution onto a heated said substrate, wherein said substrate is heated.

17. (Currently amended) An aerosol spray casting method, comprising preparing a solution by:

<u>preparing a solution by</u> dispersing a <u>ceramic</u> powder <del>to be coated</del> in a solvent<sub>7</sub>;

adding to the <u>said</u> solution a dispersant to prevent agglomeration, and;
adding at least one of the plasticizers and binders as needed to the <u>plasticizer</u>
and binder to said solution, and;

wherein said substrate comprises material selected from the group consisting of (i) presintered ceramic oxide and (ii) tape that includes at least one binder and at least one plasticizer.

- 18. (Currently amended) The method of Claim claim 17, wherein the said solvent is selected from the group consisting of ethanol and methanol.
- 19. (Currently amended) The method of Claim claim 17, wherein the step of depositing the said solution is carried out at a temperature below about 100° C.

20. (Currently amended) The method of Claim claim 17, wherein the step of depositing the said solution is carried out by spraying via the said atomizer on a heated said substrate, wherein said substrate is heated.